

SPECIFICATIONS



Vollay V7000 Opening Roof System – RRS-M – Retractable Roof System- Motorised

This system is based on a motorised movable waterproof membrane roof, which is attached to a series of crowned ribs, which are movable and can be closed when required and retracted off the opening when not needed.

The roof material is attached to the lead motorised rib at either end to a concealed belt within the outer frame. This belt is attached to the motor using serrated pulleys that open and close the drive rib and allow the roof membrane to be closed tight, to provide a water resistant roof or to be retracted back, to create an open space when not required.

The drive rib is linked to the idle ribs using both the fabric roof membrane and a series of stainless steel spacer cables, which operate the remaining ribs when closing the roof, or concertina them back when opening.

The outer frame which is made from extruded aluminium, is both the structural frame and also acts as the motor housing, concealing the motor, drive belts and drives hardware. This frame is 80 mm wide and 150 mm deep. These sections are assembled using 6 mm stainless steel bolts, which are concealed within the frame and finished off with a 3 mm thick aluminum end plate.

Under the motor housing is installed the extruded aluminium gutter system which locks into the motor housing with a concealed lip and is held in place with two countersunk 5 mm bolts and extruded corner stakes in each corner.

The captured water is discharged through a HDPP insert inside the gutter which both transfers the load of the roof into the 75 x 75 mm extruded aluminium support post while also allowing the water to pass internally down the post, eliminating the need for down pipes.

When fitting the system into an existing opening, the water can be discharged through the rear of the gutters to conceal the downpipe.

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The motor housing encloses the drive system which consists of the motor which is in the frame member section parallel to the ribs, its connected to our spline extruded aluminium drive which is attached to the two belt drive pulleys at either end of the housing.

To this belt is connected the drive rib which runs in a track which is concealed in the extruded channel incorporated in the side outer frame into which our four-wheel stainless steel bearing trolleys are installed. This trolley is also used to support our idle ribs and ensures they move freely.

To connect the fabric to the ribs we cut a series of small slits using the laser into the fabric, which provides us with a sealed, frayed free opening and edge. This allows an extruded T aluminium section to pass through the fabric and be clamped below by the full-length clamp integrated into the rib design.

The ribs also have an integrated drainage channel, to allow any moisture which may pass through the fabric, to drain into the gutter system. The motor housing mullion has an extruded cover plate, which is located on the 80 mm face to allow access to the compo entry for maintenance.

Inside the frame is mounted a 20 Newton Metre dual drive electrical motor which is manufactured in Germany with its integrated triple reduction planetary gearbox, rated at IP66. The motor also includes in-built adjustable limit switches and a thermal overload.

The motor housing includes provision for cabling and room to house a range of remote control and sensor receivers, which include both wind and rain sensors. We are also able to provide group controllers to allow either multiple roofs to operate as one, or to be integrated into C-bus or other BMS systems.

The UV resistant fabric we use is sourced from the automotive industry and comes in a range of three standard colours white, ivory and soft grey and in a clear and tinted translucent. The system is able to span up to 4000 mm width and traverse up to 9000 mm in length in one opening

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Aluminium shall be extruded to Australian Standards AS 1866:1997.

Aluminum sections shall be powder coated to AS 3715-2002.

Aluminum sections shall be anodized to AS 1231-2000 and complies with corrosion resistance as per AS1580.457.1.

All fixings, bolts, screws and Pivots are manufactured from Stainless Steel.

All plastic parts are manufactured from UV resistant HDPP (High Density Polypropylene) or similar.

Please contact our office for a complete range of CAD drawings or any further assistance.

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